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	te for form 1449A/PTO			Complete if Known		
				Application Number	203/874,850 1c/766,691	
INF	ORMATION	I DISCL	OSURE	Filing Date	September 27, 2000	
STA	ATEMENT E	RY APP	LICANT	First Named Inventor	Donoho	
Juse as many sheets as necessary				Group Art Unit	1645 1652	
				Examiner Name	To be Assigned Monshippui	
Sheet	1	of	2	Attorney Docket Number	LEX-0046-USA	

U.S. PATENT DOCUMENTS							
	miner Cite No.¹	U.S. Patent	Document	15.45	Date of Publication	Pages, Columns, Lines,	
Examiner Initials*		of Cited Document	of cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear			
re.16.	AA	4,215,051		Schroeder et al	07/29/80		
-	AB	4,376,110		David et al	03/08/83		
	AC	4,946,778		Ladner et al	08/07/90	_	
-	AD	5,817,479		Au-Young.et al	10/06/98		
	AE	5,830,721		Stemmer et al	11/03/98		
	AF	5,837,458		Minshull et al	11/17/98		
	AG	5,869,336		Meyer et al	02/09/99		
\neg	AH	5,877,397		Lonberg et al	03/02/99		
ne.e.	Al	6,075,181		Kucherlapati et al	06/13/00		

					FORE	IGN PATENT DOCUMENTS	}		
Exami Initials		Cite No.¹	Foreign Patent Docume Office ³ Number ⁴		ment Kind Code ^s (<i>if known</i>)	Name of Patentee or Applicant of Cited Document	Date of Publication of cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ*
				OTHER	PRIOR ART-	NON PATENT LITERATUR	E DOCUMENTS		
	Examiner Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					•	T ²		
re.	14.	ΑJ	Bird et al, 1988, "Single-Chain Antigen-Binding Proteins", Science 242:423-426.						
		AL	Bitter et al, 1	987, "Expressio	n and Secretio	n Vectors for Yeast", Method	ls in Enzymology 153:	:516-544.	
		AL	Colbere-Garapin et al, 1981, "A New Dominant Hybrid Selective Marker for Higher Eukaryotic Cells", J. Mol. Biol. 150:1-14.						
		AM	1	locarbazole. Syn		c and β-anomeric tetrathymic chemical properties and poly	•	_	
		AN	Greenspan et al, 1993, "Idiotypes: structure and immunogenicity", FASEB Journal 7:437-444.						
		AO	Huse et al, 1989, "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda", Science 246:1275-1281.						
		AP	Huston et al, 1988, "Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin single-chain Fv analogue produced in Escherichia coli", Proc. Natl. Acad. Sci. USA 85:5879-5883.						
ب . ب	۲.	AQ	Inoue et al, 1987, "Sequence-dependent hydrolysis of RNA using modified oligonucleotide splints and R Nase H", FEBS Letters 215(2):327-330.						

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Subs	Substitute for form 1449B/PTO			Complete if Known		
INF	ORMATION	y Disci	OSURE	Application Number	09/07/1,050 10/766,691	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	September 27, 2000	
				First Named Inventor	Donoho	
				Group Art Unit	1648 1652	
(use as many sheets as necessary)			10)	Examiner Name	Koren Weshington Monshipon	
Sheet	2	of	2	Attorney Docket Number	LEX-0046-USA	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²					
16.16.	AR	Inoue et al, 1987, "Synthesis and hybridization studies on two complementary nona(2'-O-methyl)ribonucleotides", Nucleic Acids Research 15(15):6131-6149.						
	AS	Inouye & Inouye, 1985, "Up-promoter mutations in the lpp gene of Escherichia coli", Nucleic Acids Research 13(9):3101-3110.						
	AT	Janknecht et al, 1991, "Rapid and efficient purification of native histidine-tagged protein expressed by recombinant vaccinia virus", PNAS USA 88:8972-8976.						
	ΑU	Kohler & Milstein, 1975, "Continuous cultures of fused cells secreting antibody of predefined specificity", Nature 256:495-497.						
	AV	Logan et al, 1984, "Adenovirus tripartite leader sequence enhances translation of mRNAs late after infection", Proc. Natl. Acad. Sci. USA 81:3655-3659.						
	AW	Lowy et al, 1980, "Isolation of Transforming DNA: Cloning the Hamster aprt Gene", Cell 22:817-823.						
	AY	Morrison et al, 1984, "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains", Proc. Natl. Acad. Sci. USA 81:6851-6855.						
	AZ	Mulligan & Berg, 1981, "Selection for animal cells that express the Escherichia coli gene coding for xanthine-guanine phosphoribosyltransferase", Proc. Natl. Acad. Sci. USA 78(4):2072-2076.						
	ВА	Neuberger et al, 1984, "Recombinant antibodies possessing novel effector functions", Nature 312:604-608.						
	ВВ	Nisonoff, 1991, "Idiotypes: Concepts and Applications", J. of Immunology 147:2429-2438.						
	ВС	O'Hare et al, 1981, "Transformation of mouse fibroblasts to methotrexate resistance by a recombinant plasmid expressing a prokaryotic dihydrofolate reductase", Proc. Natl. Acad. Sci. USA 78(3):1527-1531.						
	BD	Ruther et al, 1983, "Easy identification of cDNA clones", EMBO Journal 2(10):1791-1794.						
	BE	Santerre et al, 1984, "Expression of prokaryotic genes for hygromycin B and G418 resistance as dominant-selection markers in mouse L cells", Gene 30:147-156.						
	BF	Sarin et al, 1988, "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates", Proc. Natl. Acad. Sci. USA 85:7448-7451.						
	BG	Smith et al, 1983, "Molecular Engineering of the Autographa californica Nuclear Polyhedrosis Virus Genome: Deletion Mutations within the Polyhedrin Gene", J. Virol. 46(2):584-593.						
	BH	Stein et al, 1988, "Physiochemical properties of phosphorothioate oligodeoxynucleotides", Nucleic Acids Research 16(8):3209-3221.						
	ВІ	Szybalska & Szybalski, 1962, "Genetics of Human Cell Lines, IV. DNA-Mediated Heritable Transformation of a Biochemical Trait", Proc. Natl. Acad. Sci. USA 48:2026-2034.						
	BJ	Takeda et al, 1985, "Construction of chimaeric processed immunoglobulin genes containing mouse variable and human constant region sequences", Nature 314:452-454.						
	ВК	Van Heeke et al, 1989, "Expression of Human Asparagine Synthetase in Escherichia coli", J. Biol. Chemistry 264(10):5503-5509.						
	BL	Ward et al, 1989, "Binding activities of a repertoire of single immunoglobulin variable domains secreted from Escherichia coli", Nature 341:544-546.						
	ВМ	Wigler et al, 1980, "Transformation of mammalian cells with an amplifiable dominant-acting gene", Proc. Natl. Acad. Sci. USA 77(6):3567-3570.						
12.12.	BN	Wigler et al, 1977, "Transfer of Purified Herpes Virus Thymidine Kinase Gene to Cultured Mouse Cells", Cell 11:223-232.						

Examiner	Marcashi.	Date .	5/6/05
Signature	. 1	Considered	3/6/63

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Substitute for form 1449A/PTO	Complete if Known		
SUPPLEMENTAL	Application Number	-09/674050 10/766/69/	
INFORMATION DISCLOSURE	Filing Date	September 27, 2000	
	First Named Inventor	Donoho	
STATEMENT BY APPLICANT	Group Art Unit	1645: 1652	
	Examiner Name	To-be-Assigned Monshipowi	
Sheet (use as many sheets as necessary)	Attorney Docket Number	LEX-0046-USA	

U.S. PATENT DOCUMENTS							
Cite	U.S. Patent Document		Name of Patentee or Applicant	Date of Publication	Pages, Columns, Lines,		
No.1	Number	Kind Code ² (if known)	of Cited Document	of cited Document MM-DD-YYYY	Where Relevant Passages or RelevantFigures Appear		
во	US 5817479 A		Au-Young et al.	10/06/98			
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-		No.1 Number	No. Number Kind Code* (if known)	Cite No. Number U.S. Patent Document Name of Patentee or Applicant of Cited Document	Cite No.¹ Number Name of Patentee or Applicant of Cited Document Name of Patentee or Applicant of Cited Document MM-DD-YYYY		

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16.16. BO		HILLIER ET AL.: "zu89f10.s1 Soares-testis-NHT Homo sapiens cDNA clone IMAGE: 745195 3' similar to SW:KKIA_HUMAN Q00532 SERINETHREONINE-PROTEIN KINASE KKIALRE" EMBL SEQUENCE DATABASE 28 Octobi 1997 (1997-10-28), XP002161432. HEIDELBERG DE Ac AA626859						
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